

STATINTL

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January 9, 1963

Digital Readout Comparator

[REDACTED] expected to deliver the first of the two systems before Christmas. In the last stages of final check-out however, they had difficulty with their parity check, particularly the vertical parity check.

[REDACTED] the engineer and [REDACTED] the technician discovered the problem from examination of the magnetic tape on which they were recording the output of the "send data lead".

In order to examine the output, they record the outgoing pulses on the a tape recorder. They make the pulses on the tape visible by immersing it in an iron oxide solution made for the purpose by [REDACTED] called Magna See.

The parity errors were difficult to trace and it took them quite a while to find the source of the problem. They finally found there were small variations in the voltage levels of the pulses on the send data lead due to small variations in the impedances of the circuits. The difficulty was corrected by rebiasing the drives.

[REDACTED] reemphasized that they cannot adequately check the performance of the error or acknowledge pulses to be received by the system from the computer because they don't have a dataphone. They are very anxious to be kept posted by the user on any problems that arise. They seem quite confident that the system will in general perform well and have a long and trouble free life.

The Company should be congratulated on their conscientious and thorough check out of the system. They are experienced and knowledgeable in digital counting systems and they seem to take extra interest in seeing that the equipment is right when it leaves their factory.

DECLASS REVIEW by NIMA/DOD

The first system is completely checked out and will be delivered to [REDACTED] next week. The second system is wired and they will start checkout on it next week. The second system will be checked out to check.

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